

TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES & SERVICE CENTERS
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODELS AFFECTED: MA-312, MA-313

SYMPTOMS: COMMAND OR DISPLAY DATA NOT CORRECT AT ALL TIMES.

A TYPICAL PROBLEM WOULD BE THE FALSE RECEPTION OF A "B" OPTION COMMAND AT THE BASE STATION WHEN AN IDLING

MA-312 IS LEFT IN THE "MONITOR" MODE.

CAUSE: DYNAMIC RANGE OF TONE DETECTORS NOT GREAT ENOUGH.

#### PRODUCTION CHANGES:

MA-312: R725 changed from 1M ohm to 560K ohm. MA-313: R2308 changed from 1M ohm to 560K ohm.

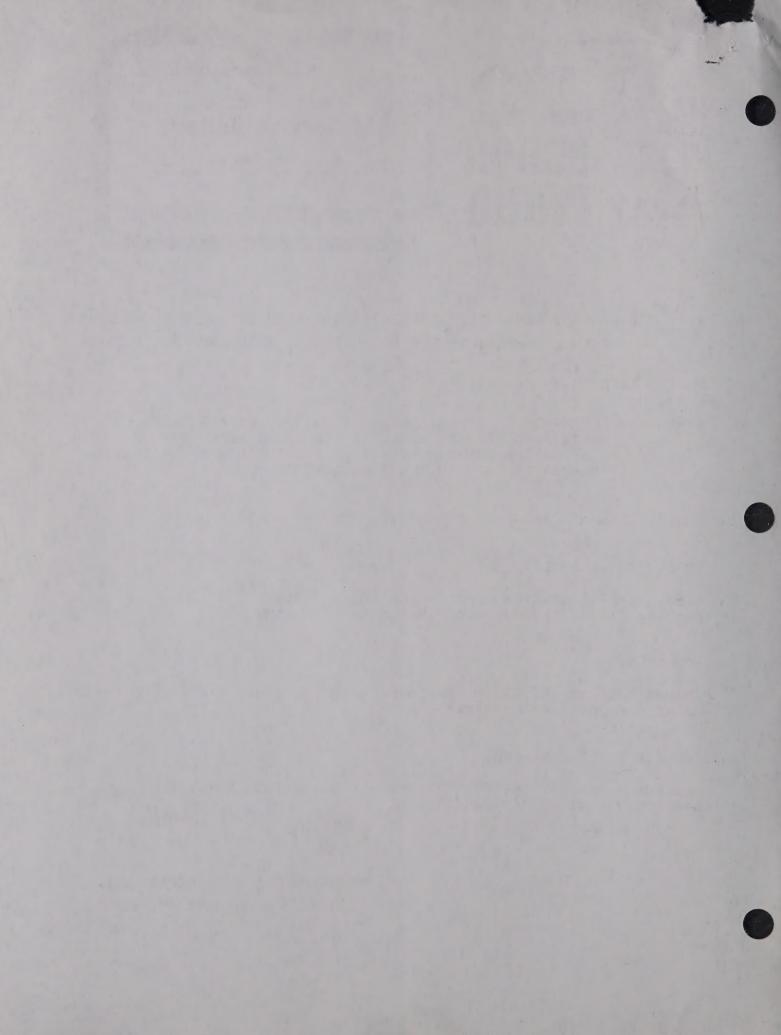
## SOLUTION:

Change R725 and R2308 to 560K ohm, 1/4W, (Regency P/N 4704-0564-032). No adjustments are necessary.

#### SERVICE MANUAL CHANGES:

Replace pages 29, 36, 56, 67 in the Digital Tone Remote System Service Manual, 0300-4280-100.

TECHNICAL SERVICE DEPARTMENT REGENCY COMMUNICATIONS, INC.



LOCATION	DESCRIPTION	PART NUMBER	ZONE
R627 R628 R629 R630 R631 R632 R633 R634 R635 R636 R637 R638 R639 R640	220K 10K 1 meg 100K 100K 100K 1 meg 1 meg 10K 47K 1 meg 500K, 20T res var 470K	4704-0224-032 4704-0103-032 4704-0105-032 4704-0104-032 4704-0104-032 4704-0103-032 4704-0105-032 4704-0105-032 4704-0105-032 4704-0105-032 4704-0473-032 4704-0105-032 4704-0473-032	D3 D4 D3 D3 C3 D5 C3 C3 C3 C3 C3 C3 C3 C2 C2 C2
R641 R642 R643 R644 R645 R646 R647 R648 R649 R650 R651 R652 R653 R656 R657 R658 R659 R660 R661 R662 R663 R664 R665 R667 R668 R667 R668 R667 R668 R670 R671 R672 R673 R674 R675 R676 R677	not used 100K 1.2 meg 4.7K 100K 4.7K 10K trim pot res var 100K 1.5K 10K 1.5	4704-0104-032 4704-0125-032 4704-0472-032 4704-0104-032 4704-0103-001 4704-0103-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0152-032 4704-0103-032 4704-0103-032 4704-0152-032 4704-0103-032 4704-0103-032 4704-0105-032 4704-0105-032 4704-0105-032 4704-0105-032 4704-0102-032 4704-0102-032 4704-0471-034 4704-0471-034 4704-0104-032 4704-0104-032 4704-0104-032	C2 C2 C2 C2 C2 C2 C3 C5 C5 B5 B5 B5 B5 B5 B5 B5 A5 A5 A5 A5 A5 A5 A5 A5 A5 A5 A5 A5 A5
R678 R679 R680 R681 R682	1 meg 100K 10, 1W not used 2.2K	4704-0103-032 4704-0104-032 4700-0100-045	C4 B4

LOCATION	DESCRIPTION	PART NUMBER	ZONE
R683	10K	4704-0103-032	В3
R684	120	4704-0121-032	В4
R685	2.7	4704-0279-032	В4
R686	680	4704-0681-032	A4
R687	not used		
R688	5K slide pot	4752-0502-001	В3
R689	470	4704-0471-032	A3
R690 R691	10K	4704-0103-032 4704-0105-032	A3
R692	1 meg 2.2 meg	4704-0105-032	C3
R693	10K	4704-0223-032	D3
R694	1 meg	4704-0105-032	A3
R695	not used	1,01,0103,032	N. F. O. H.
R696	1 meg	4704-0105-032	C3
R697	22K	4704-0223-032	C3
R698	22K	4704-0223-032	В3
R699	not used		
R700	4.7K	4704-0472-032	В3
R701	100K	4704-0104-032	В3
R702	1 meg	4704-0105-032	В3
R703 R704	100K	4704-0104-032 4704-0335-032	A3
R705	3.3 meg 4.7K	4704-0335-032	A3 A3
R706	47K trim pot res var	4751-0473-001	A3
R707	100K	4704-0104-032	A3
R708	100K	4704-0104-032	A3
R709	1 meg	4704-0105-032	A3
R710	68K	4704-0683-032	A3
R711	100K	4704-0104-032	A3
R712	10K trim pot res var	4751-0103-001	A3
R713	100K	4704-0104-032	A2
R714	2.2 meg	4704-0225-032	C3
R715 R716	2.7K	4704-0272-032	C3
R710 R717	33K 220K	4704-0333-032 4704-0224-032	B3
R718	100K	4704-0224-032	C2 C2
R719	100K	4704-0104-032	C2
R720	100K	4704-0104-032	C2
R721	301K, RN55	4709-3402-402	C2
R722	301K, RN55	4709-3402-402	C2
R723	301K, RN55	4709-3402-402	B2
R724	301K, RN55	4709-3402-402	B2
R725	560K ohm	4704-0564-032	C2
R726	10K	4704-0103-032	C2
R727	500K, 20T res var	4704-5429-001	C2
R728 R729	100K 22J	4704-0104-032 4704-0223-032	C2
R730	100K	4704-0223-032	C2 C2
R731	10K	4704-0103-032	C2
R732	100K	4704-0104-032	A2
R733	100K	4704-0104-032	A2
R734	1K	4704-0102-032	A2
R735	100K	4704-0104-032	A2
R736	100K	4704-0104-032	A2
R737	100K	4704-0104-032	A2
R738	100K	4704-0104-032	A2
Rev. 11/82			
ONE DEMONE C	XCMDM EC		SECTION

LOCATION		DESCRIPTION	PART NUMBER	ZONE
R2294 R2295 R2296 R2297 R2298 R2299 R2300 R2301 R2302 R2303 R2304 R2305 R2306 R2307	100K 22K 10K 100K 10K 1K 56 10K 1K 56 100 1K Trim Pot 100 not used		4704-0104-032 4704-0223-032 4704-0103-032 4704-0103-032 4704-0102-032 4704-0560-032 4704-0102-032 4704-0102-032 4704-0102-032 4704-0560-032 4704-0101-032 4751-3422-601 4704-0101-032	E1 E1 E1 D2 D2 D2 D2 C2 C2 C2 D2 D2 D2
R2308 R2309 R2310 R2311 R2312 R2313 R2314 R2315	560K ohm 10K 100K 1 meg 47K 1 meg 10K 1 meg		4704-0103-032 4704-0104-032 4704-0105-032 4704-0473-032 4704-0105-032 4704-0103-032 4704-0105-032	E1 G8 G7 E4 E4 F8 D7
R2316 TRANSISTORS	10К		4704-0103-032	D7
Q2201-2208 Q2209 Q2210 Q2211 Q2212 Q2213 Q2214	not used SPS-952 not used not used SPS-952 MPS-A05 MPS-A05		4801-0000-010 4801-0000-010 4801-0000-005 4801-0000-005	D6  D3  D2  D2
DIODES				
CR2201-2213 CR2214 CR2215 CR2216 CR2217	not used 1N4148 not used not used not used		4805-1241-200	F4
CR2218 CR2219 CR2220 CR2221 CR2222 CR2223 CR2224	not used 1N4148 1N4148 1N4148 not used not used not used		4805-1241-200 4805-1241-200 4805-1241-200	D6
CR2225 CR2226 CR2227 CR2228	not used 1N4148 1N4148 not used		4805-1241-200 4805-1241-200	
CR2229 CR2230 CR2231 CR2232 CR2233	not used 1N4148 1N4148 not used not used		4805-1241-200 4805-1241-200	
Rev. 11/8	2	-67-		SECTION 5

Rev. 11/82 DIGITAL TONE REMOTE SYSTEM

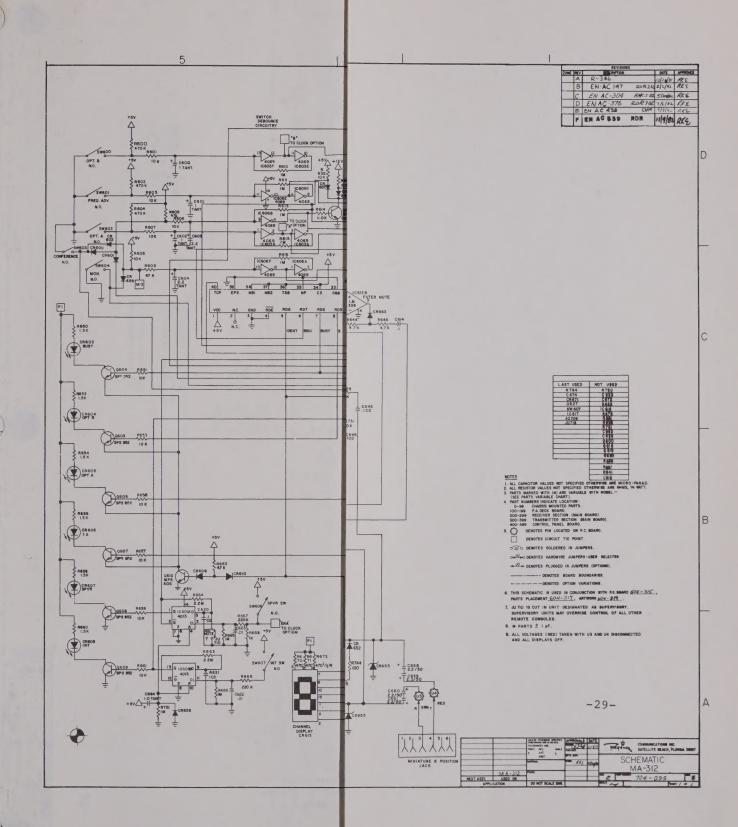
LOCATION	DESCRIPTION	PART NUMBER	ZONE
CR2235 not	.48 .48 .48	4805-1241-200 4805-1241-200 4805-1241-200 4805-1241-200 4805-1241-200 4805-1241-200	D5 E4 D4 D4 F8 D2
CR2243 1N41 CR2244 1N41 CR2245 1N41 CR2246 1N41 CR2247 1N41	.48 .48 .48 .48	4805-1241-200 4805-1241-200 4805-1241-200 4805-1241-200 4805-1241-200	C2 C2 D1 F8 E3
CR2250 1N41 INTEGRATED CIRCUITS		4805-1241-200	D7
IC2202 not IC2203 not IC2204 LM35		3130-3167-909	E4/D7
IC2208 not	used used	3130-3167-909 3130-3157-627	E1/D3 CDE8
IC2211 not	066 used used used	3130-3157-658	DE7
IC2213 MM74 IC2214 MM74 IC2215 not IC2216 MM74	used	3130-3157-617 3130-3157-617 3130-3157-617	
MECUANICAI	DART NIIM		

### MECHANICAL

20 conductor cable P.C. Board

#### PART NUMBER

6008-3300-009 1700-5457-100



LOCATION	display train.	DESCRIPTION	PART NUMBER	ZONE
CR2234 CR2235	not used			
CR2236 CR2237	not used 1N4148		4805-1241-200	D5 E4
CR2238 CR2239	1N4148 1N4148		4805-1241-200 4805-1241-200	D4
CR2240 CR2241	1N4148 1N4148		4805-1241-200 4805-1241-200	D4 F8
CR2242 CR2243	1N4148 1N4148		4805-1241-200 4805-1241-200	D2 C2
CR2244	1N4148		4805-1241-200 4805-1241-200	C2 D1
CR2245 CR2246	1N4148 1N4148		4805-1241-200	F8
CR2247 CR2248-4	1N4148 9 not used		4805-1241-200	E3
CR2250 INTEGRATE	1N4148		4805-1241-200	D7
CIRCUITS				
IC2201 IC2202	not used not used			
IC2203 IC2204	not usee		3130-3167-909	E4/D7
IC2205 IC2206	LM358 MC14001		3130-3167-909 3130-3157-627	E1/D3 CDE8
IC2207	not used		3130 3137 027	
IC2208 IC2209	not used CD4066		3130-3157-658	DE7
IC2210 IC2211	not used not used			
IC2212 IC2213	not used MM74C04		3130-3157-617	
IC2214 IC2215	MM74C04 not used		3130-3157-617	
IC2216	MM74C04		3130-3157-617	

## MECHANICAL

20 conductor cable P.C. Board

# PART NUMBER

6008-3300-009 1700-5457-100

